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(54) Title: COMPOSITIONS OF NDV AND METHODS OF USE THEREOF FOR TREATMENT OF CANCER

(57) Abstract: The present invention discloses methods for inducing regression of a tumor in a subject comprising administering a pharmaceutical composition comprising a lentogenic strain of Newcastle disease virus (NDV). A preferred viral strain of NDV for inducing regression of a tumor in a subject is a clonal strain of NDV, the NDV HUJ. The methods of the present invention are particularly useful for inducing regression of tumors in patients unresponsive to conventional anti-cancer therapies.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61K 35/00, 48/00; C12N 15/00, 7/00 US CL : 424/93.1; 435/32.1, 235.1 According to International Patent Classification (CIPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. 424/93.1; 435/32.1, 235.1 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X --- Y	IL 145397 (ZACHY-RONES et al.) 12 September 2001 (12.09.2001), see entire document	1-9,22-24,32 10-21,25-31,33,34		
X --- Y	SCMRRMACHER et al. Antitumor effects of Newcastle Disease Virus in vivo: Local versus systemic effects. May 2001, vol. 18, pages 945-952, see entire document	1,3-6, 22,23,32 2, 7, 8, 10-21, 24-31, 33,34		
X --- Y	US 2003/0044384 A1 (ROBERTS et al.) 6 March 2003 (3 06 2003), see entire document	1,3-6, 22,23,32 2, 7, 8, 10-21, 24-31, 33,34		
X --- Y	PHUANGSAB et al Newcastle disease virus therapy of human tumor xenografts: antitumor effects of local or systemic administration. Cancer Ltrs. October 2001 vol. 172, pages 27-36, see entire document	1,3-6, 22,23,32 2, 7, 8, 10-21, 24-31, 33,34		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.				
D See patent family annex.				
<table border="0"> <tr> <td> " " Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td> "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family </td> </tr> </table>			" " Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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Date of the actual completion of the international search 18 November 2005 (18.11.2005)		Date of mailing of the international search report 06 MAR TQDi		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201		Authorized officer Ram Shukla <i>Armi - Marie Falk</i> Telephone No. (571) 272-0735 ANNE-MARIE FALK, PH.D PRIMARY EXAMINER		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL05/005 18

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FREEMAN et al. Phase I/II trial of intravenous NDV-HUJ oncolytic virus in recurrent glioblastoma multiforme. Molecular Therapy. November 2005; online doi: 10.1016/j.ymthe.2005.08.016, pages 1-8, see entire document	1-34

INTERNATIONAL SEARCH REPORT

International application No.

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Continuation of B. FIELDS SEARCHED Item 3:
East: USPAT;USPGPUB,DERWENT,EPO
STN:File Medline
Search Terms: NDV,NDV-HUJ, tumor, vaccine, therapy, oncolytic, cancer